Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_ HR: \_\_\_\_\_\_\_\_\_

**Topic 1.1 History of Heat Technologies**

**Topic 1.2 Heat Technologies in Everyday Life**

**Definitions**

1. Define and illustrate (draw a picture that is related!): **/5 marks**

✱ Joule (1.1)

✱ Needs (1.1)

✱ Wants (1.1)

✱ Heat-related technologies (1.2)

✱ Standard of living (1.2)

**Early Theories of Heat /2 marks**

1. Explain the caloric theory.
2. Why was the caloric theory disregarded?

**Heat Is Energy /1 marks**

1. What is heat? The answer to this question should also include a definition in

your own words.

**Humans Need Heat /5 marks**

1. Imagine what would happen if you and your family were without heat for one

full week in the middle of January.

What would happen if natural gas, oil, and electricity were cut off?

What impact would it have on how you dress, what you eat, or what activities you

did?

How would your way of life change for that one week? What changes would you

make?

**Heat-Related Materials and Technologies /2 marks**

1. In the past, many people used wood stoves or fireplaces to heat their homes.

Today most people use oil or gas furnaces or electric heating. Why do you think this change occurred?

**Heating Technology Through Time /4 mark**

1. Make a timeline of heating technology use the information on the wiki to help you. Use the example timeline to help you create your own.

**Personal and Societal Choices /4 marks**

1. For each heat technology listed below, explain why you think it’s a “need” or

a “want.” If the heat technology is a “want”, what could be used if it were not available

a. Hand-held hair dryer b. air-conditioning

c. household furnace d. polar fleece clothing